

DERWENT-ACC-NO: 1997-455905
DERWENT-WEEK: 199742
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TITLE: Cellulose solution for producing cast articles - is
obtained by mixing
cellulose powder with methyilmorpholine=N=oxide containing
water, and passing
the mixture through an extruder

INVENTOR: BORODINA, O E; GOLOVA, L K ; VASILEVA, N V

PATENT-ASSIGNEE: POLYMER FIBRES RES INST[POLYR]

PRIORITY-DATA: 1994RU-0004914 (February 10, 1994)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE
PAGES	MAIN-IPC	
RU 2075560 C1	March 20, 1997	N/A
004	D01F 002/02	

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO
APPL-DATE		
RU 2075560C1	N/A	1994RU-0004914
February 10, 1994		

INT-CL (IPC): B29B007/38; D01F002/02

ABSTRACTED-PUB-NO: RU 2075560C

BASIC-ABSTRACT: Cellulose solution for forming various
articles such as fibres
films, sponges, etc., is prepared as follows. Cellulose
ground to < 200 mu
particle size is mixed with methyilmorpholine-N-oxide
containing 3-5 wt.% water,
in proportion 10-50:90-50. The mixture is then passed
through an extruder to
produce ''solid'' solution in 3-5 min. Subsequent application
of suitable
temperature and pressure yields a highly concentrated
solution containing up to
50 wt.% of cellulose.

USE - In chemical technology.

ADVANTAGE - The ''solid'' solution can be conveniently stored and transported and converts easily into highly concentrated liquid.

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS:

CELLULOSE SOLUTION PRODUCE CAST ARTICLE OBTAIN MIX CELLULOSE POWDER CONTAIN WATER PASS MIXTURE THROUGH EXTRUDE

DERWENT-CLASS: A11 E13 F01

CPI-CODES: A03-A05; A08-S02; A11-B15C; A12-S05L; E07-E03; F01-C08; F01-D06;

CHEMICAL-CODES:

Chemical Indexing M3 *01*

Fragmentation Code

F014 F018 F653 K0 K7 K742 M210 M211 M273 M281

M320 M413 M510 M521 M530 M540 M781 M903 M904 Q322

Specific Compounds

04509U

ENHANCED-POLYMER-INDEXING:

Polymer Index [1.1]

018 ; G3634*R D01 D03 D11 D10 D23 D22 D31 D42 D76 F24 F34 H0293

P0599 G3623 ; S9999 S1627 S1605 ; S9999 S1285*R ; S9999 S1070*R

; S9999 S1456*R

Polymer Index [1.2]

018 ; ND01 ; N9999 N6155 ; B9999 B5209 B5185 B4740 ; N9999 N5970*R

; N9999 N7012 ; B9999 B3532 B3372 ; N9999 N5743

Polymer Index [1.3]

018 ; D01 D11 D10 D23 D22 D31 D76 D41 D42 D50 D85 F34 N* 5A O* 6A

; A999 A475

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1997-145567

DERWENT-ACC-NO: 1999-629370
DERWENT-WEEK: 200006
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TITLE: Solvent regenerated cellulose casting object used for
manufacture of
paper, nonwoven fabric used for e.g. sanitary goods -
obtained by applying
cellulose dissolved in cellulose solvent containing
N-methylmorpholine-N-oxide
on porous sponge material

PATENT-ASSIGNEE: HOKUETSU PAPER MILLS [HOKP]

PRIORITY-DATA: 1998JP-0101730 (March 31, 1998)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE
PAGES	MAIN-IPC	
JP 11279323 A	October 12, 1999	N/A
005	C08J 009/28	

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO
APPL-DATE		
JP 11279323A	N/A	1998JP-0101730
March 31, 1998		

INT-CL (IPC): C08J009/04; C08J009/28 ; C08K003/26 ;
C08K005/00 ;
C08L001/00

ABSTRACTED-PUB-NO: JP 11279323A

BASIC-ABSTRACT: NOVELTY - Cellulose dissolved in cellulose
solvent containing
N-methylmorpholine-N-oxide is applied on a porous sponge
material. The sponge
material is particulate, tabular, mat like, irregular or
filler shaped.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included
for the
manufacture of the solvent regenerated cellulose casting
object. A foaming
agent is added before or after cellulose dissolution or

during cellulose
dissolution. After the dissolution, the temperature of the
cellulose dissolved
substance is raised to the foaming temperature, to obtain a
sponge material.
Coagulation and solvent removal are performed, to obtain a
solvent regeneration
cellulose casting object.

USE - For manufacture of paper, nonwoven fabric used as
chemical carrier,
medical absorber, sanitary goods, utensils, cleaning article,
coating base
material.

ADVANTAGE - Mass production of the casting object is simple.
Quality of the
casting object is maintained. Effective usage of natural
cellulose resources
containing waste, is possible.

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS:

SOLVENT REGENERATE CELLULOSE CAST OBJECT MANUFACTURE PAPER
NONWOVEN FABRIC
SANITARY GOODS OBTAIN APPLY CELLULOSE DISSOLVE CELLULOSE
SOLVENT CONTAIN N N
OXIDE POROUS SPONGE MATERIAL

DERWENT-CLASS: A11 A96 D22 E13

CPI-CODES: A03-A05; A08-B01; A11-B05D; A11-B06; A12-S04;
A12-S04A1; A12-S04D;
A12-S05G; A12-W06D; D09-C02; D09-C03; D09-C04; E07-E03;

CHEMICAL-CODES:

Chemical Indexing M3 *01*

Fragmentation Code

F014 F018 F653 K0 K7 K742 M210 M211 M273 M281
M320 M413 M510 M521 M530 M540 M781 M903 M904 Q130
Q262 Q323 Q324 R038 R043 R044 R047

Specific Compounds

04509K 04509U

ENHANCED-POLYMER-INDEXING:

Polymer Index [1.1]

018 ; R01852*R G3634 D01 D03 D11 D10 D23 D22 D31 D42 D50

D76 D86
 F24 F29 F26 F34 H0293 P0599 G3623 ; S9999 S1183 S1161
 S1070 ; S9999
 S1309*R ; S9999 S1365 ; S9999 S1627 S1605
 Polymer Index [1.2]
 018 ; ND01 ; ND07 ; Q9999 Q9132 ; Q9999 Q8582 ; Q9999
 Q8004 Q7987
 ; Q9999 Q7987*R ; Q9999 Q7794*R ; Q9999 Q7705 Q7681 ;
 Q9999 Q7034*R
 ; N9999 N5890 N5889 ; N9999 N5743 ; N9999 N6086 ; N9999
 N6177*R
 ; B9999 B5221 B4740 ; B9999 B3554*R ; N9999 N6860 N6655 ;
 N9999
 N6699 N6655
 Polymer Index [1.3]
 018 ; A999 A260*R
 Polymer Index [1.4]
 018 ; D01 D11 D10 D23 D22 D31 D76 D45 D50 D85 N* 5A O* 6A
 ; A999
 A475
 Polymer Index [2.1]
 018 ; R24078 R01852 G3634 G3623 D01 D03 D11 D10 D23 D22
 D31 D42
 D50 D76 D86 F24 F29 F26 F34 H0293 P0599 ; S9999 S1627
 S1605 ; S9999
 S1309*R
 Polymer Index [2.2]
 018 ; R03882 D01 D11 D10 D23 D22 D31 D42 D50 D76 D86 F08
 F07 F24
 F28 F26 F34 H0293 P0599 G3623 M2313 ; S9999 S1627 S1605 ;
 S9999
 S1309*R
 Polymer Index [2.3]
 018 ; ND01 ; ND07 ; Q9999 Q9132 ; Q9999 Q8582 ; Q9999
 Q8004 Q7987
 ; Q9999 Q7987*R ; Q9999 Q7794*R ; Q9999 Q7705 Q7681 ;
 Q9999 Q7034*R
 ; N9999 N5890 N5889 ; N9999 N5743 ; N9999 N6086 ; N9999
 N6177*R
 ; B9999 B5221 B4740 ; B9999 B3554*R ; N9999 N6860 N6655 ;
 N9999
 N6699 N6655 ; N9999 N6439 ; K9745*R
 Polymer Index [2.4]
 018 ; D01 D11 D10 D23 D22 D31 D76 D45 D50 D85 H* O* 6A N*
 5A ; A999
 A475
 Polymer Index [2.5]
 018 ; R01055 D01 D50 D82 F13 F78 ; A999 A271 A260

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1999-183715